

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1. (Currently Amended) A method of communicating in a wireless network,  
2 comprising:  
3 pre-allocating, to a packet-switched real-time, interactive communications  
4 application, resources of at least one node of the wireless network, the pre-allocated  
5 resources comprising resources normally allocated in response to a call setup request,  
6 wherein the pre-allocated resources include resources relating to a link with a  
7 predetermined quality of service;  
8 receiving a first call setup request after pre-allocating the resources; and  
9 establishing, in response to the first call setup request, a packet-switched  
10 real-time, interactive communications session through the wireless network using the  
11 pre-allocated resources of the at least one node.

1 2. (Original) The method of claim 1, wherein pre-allocating the resources comprises  
2 pre-allocating resources of one of a base transceiver system and base station controller.

1 3. (Original) The method of claim 1, wherein pre-allocating the resources comprises  
2 pre-allocating resources of a packet data serving node.

1 4. (Original) The method of claim 1, wherein pre-allocating the resources comprises  
2 pre-allocating resources of at least one of a press-to-talk server, voice-over-Internet  
3 Protocol server, and a call session control function module.

1 5. (Currently Amended) The method of claim 1, wherein pre-allocating the  
2 resources further comprises allocating ~~[[a]]the dedicated channel link~~ between the at least  
3 one node and a second node in the wireless network to carry call control packets for the  
4 packet-switched real-time, interactive communications application, wherein the link  
5 comprises a dedicated channel.

1 6. (Original) The method of claim 5, wherein allocating the dedicated channel  
2 between the at least one node and the second node in the wireless network to carry  
3 packets for the packet-switched real-time, interactive communications application  
4 comprises allocating one of a T1/E1 trunk, Ethernet link, and IP route.

1 7. (Currently Amended) The method of claim 1, wherein pre-allocating the  
2 resources comprises pre-allocating binding information of a mobile station, the binding  
3 information to establish a relationship between a radio domain and a packet domain, the  
4 method further comprising:  
5 storing the binding information in a base station controller; and  
6 using the binding information stored in the base station controller for establishing  
7 the packet-switched real-time, interactive session in response to the first call setup  
8 request.

1 8. (Currently Amended) The method of claim 7, wherein pre-allocating the  
2 resources comprises pre-allocating user-related information of a mobile station, the  
3 method further comprising:  
4 storing the user-related information in the base station controller, wherein the  
5 user-related information indicates the predetermined quality of service assigned to the  
6 mobile station; and  
7 using the user-related information stored in the base station controller for  
8 establishing the packet-switched real-time, interactive session in response to the first call  
9 setup request.

1 9. (Currently Amended) The method of claim 1, wherein pre-allocating the  
2 resources comprises pre-allocating binding information of a group of mobile stations, the  
3 method further comprising:

4 storing the binding information in a base station controller, wherein the binding  
5 information is to establish a relationship between a radio domain and a packet domain;  
6 and

7 using the binding information stored in the base station controller for establishing  
8 the packet-switched real-time, interactive session in response to the first call setup  
9 request.

1 10. (Original) The method of claim 1, further comprising:

2 in response to an event, a management system sending a request to pre-allocate  
3 resources to the at least one node,

4 wherein pre-allocating the resources is performed in response to the request to  
5 pre-allocate.

1 11. (Original) The method of claim 10, wherein sending the request to pre-allocate is  
2 performed during a provisioning process.

1 12. (Original) The method of claim 1, wherein pre-allocating the resources is  
2 performed in response to initiation of a mobile station.

1 13. (Currently Amended) A system comprising:  
2 an interface to a communications network; and  
3 a controller coupled to the interface to:  
4 receive a request to pre-allocate call setup resources in the system to a  
5 packet-switched real-time, interactive application;  
6 in response to the request, pre-allocate the call setup resources in the  
7 system, wherein the call setup resources enable the establishment of an Internet Protocol  
8 (IP) route having a particular quality of service;  
9 receive a call setup request after pre-allocating the call setup resources;  
10 and  
11 in response to the call setup request, set up a packet-switched real-time,  
12 interactive communications session using the pre-allocated call setup resources.

1 14. (Original) The system of claim 13, wherein the pre-allocated call setup resources  
2 include at least one of hardware, software, and communications elements of the system,  
3 wherein the pre-allocated call setup resources enable avoidance of allocating the pre-  
4 allocated call setup resources during a call setup procedure in response to the call setup  
5 request.

1 15. (Currently Amended) The system of claim 13, wherein the pre-allocated call setup  
2 resources include at least one of user-related information, binding information, and  
3 mobility information, the system further comprising a storage to store the at least one of  
4 user-related information, binding information, and mobility information,  
5 the controller to set up the packet-switched real-time, interactive communications  
6 session in response to the call setup request using the at least one of the user-related  
7 information, binding information, and mobility information.

1 16. (Original) The system of claim 13, wherein the pre-allocated call setup resources  
2 further comprise a dedicated channel between the system and another node in a wireless  
3 network.

1 17. (Original) The system of claim 13, comprising one of a base transceiver system,  
2 base station controller, and packet data serving node of a wireless network.

1 18. (Original) The system of claim 13, wherein the packet-switched real-time,  
2 interactive application comprises at least one of a press-to-talk application, voice-over-  
3 Internet Protocol application, text chat application, and instant messaging application.

1 19. (Currently Amended) An article comprising at least one storage medium  
2 containing instructions that when executed cause a system to:  
3 receive a request to pre-allocate resources for a packet-switched real-time,  
4 interactive application, the pre-allocated resources normally allocated during a call setup  
5 procedure, wherein the pre-allocated resources enable avoidance of allocating the  
6 resources during a call setup procedure, wherein the pre-allocated resources include  
7 resources related to a link with a predetermined quality of service;  
8 in response to the request, pre-allocate the resources and store information  
9 pertaining to the pre-allocated resources in a storage; and  
10 subsequent to pre-allocating the resources, process a call setup request using the  
11 pre-allocated resources.

1 20. (Original) The article of claim 19, wherein the pre-allocated resources include at  
2 least one of user-related information, binding information, and mobility information,  
3 wherein the system comprises a base station controller having the storage to store the at  
4 least one of the user-related information, binding information, and mobility information.

1 21. (New) The article of claim 19, wherein the link includes an Internet Protocol (IP)  
2 route having the predetermined quality of service.